

REMARKS

Claims 1-8 are pending in the present application. Claims 1-8 have been amended to clarify the recited subject matter. Amendments to Claims 1-4 are supported by Figs. 1 and 4 and paragraphs [1020], [1021] and [1035] of the original specification. Amendments to Claims 5-8 are supported by Figs. 1, 6 and 7 and paragraphs [1020], [1021], [1035]-[1046] of the original specification. No new matter was added.

The 5/16/2005 Office Action rejected Claims 5-7 under 35 U.S.C. § 102(a) as being anticipated by Harrison (U.S. Publication No. 2003/0125002).

Applicants respectfully submit that Harrison does not disclose Claim 5's:

“means for determining a plurality of paths of pilot signals transmitted by the at least two transmit antennas;

means for measuring channel information corresponding to each combination of one of the at least two transmit antennas and one of the plurality of paths;

means for transmitting said channel information;

means for receiving data signals transmitted from the at least two transmit antennas through the plurality of paths; and

means for demodulating the received data signals from the plurality of paths as substantially a single signal received through a single path.”

Claims 6 and 7 contain similar limitations as Claim 5. Thus Claims 5-7 should be allowable over Harrison.

The Office Action rejected Claims 1-4 under 35 U.S.C. § 103(a) as being unpatentable over Harrison, in view of Hakkinen (U.S. Patent No. 6,763,011).

Applicants respectfully submit that Harrison and Hakkinen do not teach Claim 1's:

“means for transmitting a first pilot signal through a first transmit antenna;

means for transmitting a second pilot signal through a second transmit antenna;

means for receiving channel estimate information corresponding to said first and second pilot signals;

means for generating delays and weights based on said channel estimate information, the delays corresponding to a plurality of signal paths to the subscriber station, the weights corresponding to the first and second antennas and to the plurality of signal paths;

means for applying said delays and weights to data to produce delayed, weighted data; and

means for summing the delayed, weighted data for the first and second antennas to transmit to the subscriber station, the delays causing the data transmitted on the plurality of signal paths to arrive at the subscriber station at substantially the same time, the weights causing the antennas to form a plurality of beam patterns with primary lobes along the plurality of signal paths such that a primary lobe of one beam pattern is placed within a null between two lobes of another beam pattern.”

Claims 2-4 contain similar limitations as Claim 1. Thus Claims 1-4 should be allowable over Harrison and Hakkinen.

The Office Action also rejected Claim 8 under 35 U.S.C. § 103(a) as being unpatentable over Harrison, in view of Dobrica (U.S. Patent No. 6,070,086).

Applicants respectfully submit that Harrison and Dobrica do not disclose Claim 8's limitations, which are similar to Claim 5.

### Specification

Applicants provide herewith amendments to the specification. The amendments to the specification are made by presenting marked up replacement paragraphs which identify changes made relative to the immediate prior version.

The changes made are primarily typographical or grammatical in nature, or involve minor clarifications of awkward wordings.

Applicants believe these changes add no new matter to the application and are fully supported by the original disclosure.

REQUEST FOR ALLOWANCE

In view of the foregoing, Applicants submit that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

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